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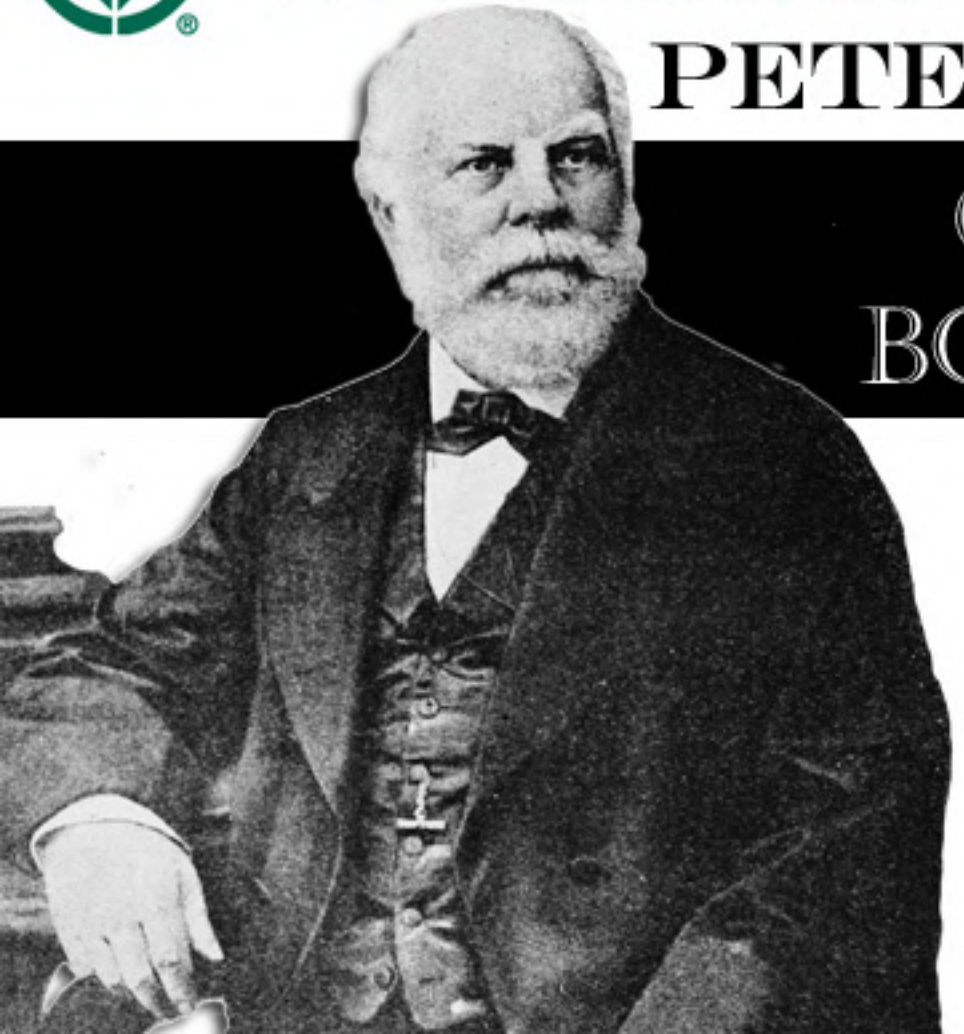

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21

Cuscuta grisebachii Rose! Mss.

Choisy! Cuscut. 182 t. 3. f. 2

& DC Prod IX 457

A very distinct species, one of the few with tiny scales, which though in Gray's figure is not mentioned in the text. The calyx is deep red, fully 2 lines long, sharply 5 angled the angles compressed into the midrib of the short ovate acute lobes; cylindric corolla granules or papillose, long exsert, with short ovate obtuse granulate lobes. Anthers sessile, long papillary styles (much longer than the ovary) short the stigmatic tube. I have seen no fruit, but venture to class this species with Engelmann as a form of it's close affinity to C. corymbosa.

Received specimens, in Herb. Haenke's Herbarium in the Bohem. Museum, Prag. Also, as Cavan's, from Guayaquil.

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52

Cascuta odonto lepis n. sp.

caulibus tenuiter filiformibus; floribus breviter pedicellatis in glomerulos laxiores, demum deconpositos ramos congestis; calycis nitidi campanulati profunde lobi ovato triangulati acuti; tubo corollae profunde campanulatae aequantibus lanceolato-ovato-lanceolatis acutis demum patulis reflexisve tubo vix brevioribus; antheris ovatis filamentis brevissime subulatis aequantibus; squamis late ovatis e tubi basi orientibus ad medium adnatis, fauce fere attingentibus, versus apicem dentatis; stylis capillaribus ovario globoso-depresso multo longioribus e fauce fere exsertis; stigmate minuto.

Near a deserted Rancho on rocky hill sides in Arizona, on Ajamuta Sept. 1. Dr Wright No 1624 (529). — "Whole plant very white" Clusters of the large showy flowers at last crowded, and more than 1 inch in diameter, 5 cm. each 2 p. l. long; scales large, deeply toothed towards the apex only; capsule globose, readily opening toward the base by a small circular hole, aperture; while C. Corymbosa — all its pores open by slightly ragged holes of nearly equal size with a small lateral

The Tasmanian species ~~with general habit~~ and slender style and some particulars approach very nearly to C. Corymbosa but seems to be well distinguished by the characters above mentioned

the deeply divided calyx-lobes, with acute lobes, the form of the valves of the capsule.

Though it is not impossible that intermediate forms may yet be found, which will oblige a future monographer to unite them, on the other hand the similarity to C. subinclusa which has decidedly narrower capsules is so great that I am almost inclined to consider this character taken from the dehiscence of the capsule as of very slight importance. One might be induced to rather double the importance of this character.

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Cuscuta xanthochortos Mart. in Mk.

Caulibus filiformibus ~~striatis~~, ~~glomerulis~~ globosis laxis ~~paucifloris~~ ~~subcapitatis~~, pedicellis brevissimis ovatis sulcatis ramosis

Caulibus filiformibus, striatis glomerulis sphaericis ~~laxifloris~~ multifloris, brevissimis ovatis, pedicellis ramosis, ultimis subglobosis, ~~brevissimis~~ profunde fisso brevissimis; coloris ovati obtusi, basi subcrassi, marginibus ~~late~~ reflexis tubum ~~late~~ ~~complanatum~~ ~~involucrum~~ aequantibus v. superantibus, laciniis elongatis, acutiusculis, basi subcrassis tubo ~~staminifero~~ multo longioribus, patulis, reflexivis, basi subcrassis, antheris ~~ovato~~ oblongis, ~~planis~~ subulato subbrevissimis, ~~ovatis~~ late ovatis fimbriatis laciniis ~~fauce~~ excedentibus, ~~ovatis~~ capsulam ~~involucrum~~ demum dilatatis ovatis multo longioribus; capsula ~~ovata~~ circumscissa, basi regulariter dehiscente.

Porto Alegre, Rio Grande de San Pedro, Brazil, ~~Santa~~ Joanne de Ste Barbara! — H. Martius. —

The species consists of an extent mass of deep yellow stems, with few heads of flowers, just developing; only few half ripe capsules but already to be easily recognized. The plant seems to be nearly allied to the next species, but is ~~distinguished~~ by the ~~larger~~ denser flowers ~~bracts~~ and ~~shorter~~ obtuse lobes etc. — Flowers (1/2–2 lines long) ~~sharp~~ obtuse lobes etc. — Flowers in ~~the~~ flowers and the ~~other~~ in others always elongated.

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before umbellate

C. partita Chois! Cusc. 188 t. 5. f. 3

DC Prod IX. 460 — Brasilia, Blanchet! 3047, Gardner 2684 ✓ Bolivia, Weddell 3483 — 3611; & extend to Peru in the Coast of the Vcayali, Rhamnaribe, Friedrichsthal, 375. 6. Cymes, fully, usually with ovate Flowers, mostly — corolla pamiculate cymes; usually glandulous and often dep red, filled with colouring matter, like C. Mauritiana leaf; Fruits ovate lanceolate, often reticulate; calyx deeply divided, lobes lanceolate; lobes of corolla of one shape, & all reflexed, with the points drawn; tube of corolla as long as calyx enveloping the capsule, with divided by 5 grooves corresponding to the 5 adnate parts of the 5 stamens which are inserted on the petals. Capsules ovales as long or shorter than the tube, styles much longer than the globose ovary, subexserted, with at last recurved; capsule very thin, hyaline; with a wide opening seeds 0.5—0.6 l. c. long, ovate, oblong or (where only one of the seeds is developed) ovate; testa thick, (cellular) linear in the form prismatic — in the cell transverse. —

The specimens from Bolivia have larger flowers (1.2—1.6 l. c.) yellowish white or rose coloured and Fruits with Colored matter.

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Cuscuta umbellata, H.B.K. Nov. gen. sp. III. 121

DC Prod IX. 460. — Fox. *C. paniculata* Willd. Ab. nro. 3163

This pretty ~~and well marked~~ species, ~~which~~ seems to have been unknown to all later botanists with the exception of Torrey who recognized it as a specimen collected ~~at the foot of the Andes~~ in New Mexico by Gen. Kearny in Long's Expedition; it has since been found in great many localities in north & south Texas, and also through the U.S. & Mex. Boundary Survey ~~though Mexico to the Atlantic~~ as it would appear to Bongé; in western Mexico as Pringle has collected which I can not specifically separate from the Mexican plant. — The flowers of this species are gathered in loose compound or paniculated cymes, the ultimate divisions of which usually 2-5 flowered, supported by a triple (lanceolate ovate bracts, usually longer or shorter than the flowers, fl. 1½-2 l. long with the calyx a little longer than the tube, the two exterior bracts ~~also~~ usually ovate, the interior lanceolate, ~~and~~ all ~~of~~ the bracts ~~are~~ 0.5-0.6 l. long, sometimes ~~the~~ ~~exterior~~ ~~bracts~~ ~~are~~ ~~ovate~~ ~~and~~ ~~the~~ ~~interior~~ ~~lanceolate~~, ~~and~~ ~~all~~ ~~of~~ ~~the~~ ~~bracts~~ ~~are~~ ~~nearly~~ ~~equal~~ ~~in~~ ~~length~~ ~~to~~ ~~the~~ ~~flowers~~ ~~and~~ ~~the~~ ~~calyx~~ ~~is~~ ~~about~~ ~~as~~ ~~long~~ ~~as~~ ~~the~~ ~~corolla~~, lanceolate, elongate, and, ~~usually~~ ~~longer~~ ~~than~~ ~~the~~ ~~tube~~ expanding or ~~about~~ reflexed, ovate, ~~or~~ ~~oval~~, large, ~~round~~, ~~and~~ ~~concave~~, ~~style~~ ~~usually~~ longer than the ovary, ~~the~~ ~~depressed~~ variable in length, ~~capsule~~ ~~usually~~ ~~covered~~ enveloping the small depressed capsule ~~and~~ ~~about~~ ~~4~~ ~~lobed~~ ~~capsule~~, which is ~~often~~ regularly circumscissile, ~~but often~~ irregularly bursting, seeds ~~about~~ nearly all 4 ovoid 0.5-0.6 l. long, ~~and~~ angular, ~~obliquely~~ with a very short ~~hilum~~ linear hilum, almost reaching the apex. —

~~Dry plains~~

It is always found on low herbs, especially on Artemisia, also on Kallstroemia, Amaranthus, Atriplex, Ambrosia, Argemone, also on low Euphorbias and others.

Between Queretaro & Selamanca, Humboldt!
Saltillo, (Gregg!) Camargo, Western Texas

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New Mexico & Arizona, Wright! 1627. 1636. 1639 (371. 510. 695), Bigelow! Schott! — Santa Fe Trader! 659. Fool of the Ruby Mts, Jones! * Da Thelesperma Jamaica, Broomfield! Parry! —

Dr Hays found a species on the S. Colo. River, Arizona on Sierra-, with much denser inflorescence, greatly resembling a form of C. Californica on the same sheet that will be mentioned below, and mainly distinct by the broadly carpellate, not tumescent, calyx & the crowned capsule & the seed.

In Engl. specimens of C. Canadensis have been collected which I can not but refer here; One of the specimens collected by Martius also on Rio Negro:

Var: B. Asteriscus is Desertorum on Engl. Bot. Mart. Fl. Bras. — flowers smaller, 1 l. c. by with broader & longer bracts; rays small & to two lateral toothed lobes; style thick the capsule exactly similarly crowned with apiculus small; seeds smaller, 0.4 — Reeds Rio Colorado and Chihuahua in the Province of Piauhy Brazil Martius! another from Province of Ceara from the same collected by Jamaica! 2425 which has (shorter & longer tube) a with larger scales. —

+ Some Mexican specimens from N Mexico show a tendency to papillose pubescence and one from Sonora Coulter! 1010 on & Euphorbia not is with unusually small flowers (Thurber) is quite papillose — Arizona.

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C. gracillima n sp

~~C. Undulata, var.~~

~~Cuscuta~~ C. gracillima ~~n. sp.~~

~~calyx tenuis capillaceus~~, ; C. foetida ~~Hook~~ & Arn.! Bot Beechey ~~304~~, not H.B.K. C. subtilis Chamb.! in Hb. C. Sidarum Liebman! in Hb. is distinguished by ~~its~~ ~~small~~ flowers, with very long and narrow ~~corolla~~ lobes, a compound inflorescence, ~~the innumerable~~ capillary pedicells branching again and again ~~and~~ at last forming dense and intricate masses of flowers sometimes over one inch thick & 2-3 inches long; flowers small, 1-1½ l. long, ~~clavate~~ corolla long (green ~~& convolute~~ in bud) in glomerules (~~Mexico~~ Tepic, Mexico ~~Sonora~~ Jaliscan ~~Mexican~~ ~~Sonoran~~ capillaceis demum decidens, ~~Mexicanis~~ ~~floribus~~ pedicellis ramosissimis multotiès decompositis (pedicellis capillaceis, flore ~~plenis~~ gracili longioribus); ~~Mexicanis~~ ~~laxiusculis~~ ~~floribus~~ demum in glomerulos densos; calyce tubiformi-campanulato ~~Mexicanis~~ ~~floribus~~ (tubo corollae longitudine, lobis ovato-lanceolatis acuminatis patentibus recurvisve) saepe apice reflexis; tubo corollae fere triplo longioribus, lobis ovato-lanceolatis acuminatis patentibus recurvisve saepe apice reflexis; tubo corollae longitudine, squamis basi tubulato capillaceis, antheris ovatis, ~~squamis~~ laciniis fimbriatis, ~~stylo~~ tubum corollae excedentibus, stylis capillaceis longissimis, stigmatibus fere capitatis; capsula ~~Mexicanis~~ ~~floribus~~ (corolla adnata) demum transverse dehiscente; seminibus ovoideis laevibus,

Synon.

Mexico, Mornay! in Hb Delessert; Tepic, Mexico Beechey! in Hb Hooker. The only species known to me with stamens longer than the lobes of the corolla; ~~[illegible]~~ distinguished also by the large & dense masses (in one speci-

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1 inch thick — 2–3 inches long) fastened by the innumerable gummy ~~of~~ small glands & long pubescence flowers; Peduncle branched but scarcely umbellate; mostly much longer than the flowers; These are 1/4–1/2 inches long; capsule ~~ovoid~~ ovate & irregularly; ~~interstices~~ septum quite small; seeds nearly 2; ~~compound~~, bristles one line long. slightly obliged at base with a very short transverse ~~or~~ obliquely ~~to them~~, — Closely allied to C. umbellata, ~~,~~ especially distinguished by the inflorescence, the ~~terminate~~ ~~valves~~ ~~of~~ the smoothest seed; less important are the erect habit and long ~~stamens~~.

~~Liebmanni~~ ~~attached~~ a form

Var. β. saccharata, C. Sidarum ~~Liebmanni~~ in Hb. Bractei pedelli totoque flore pap. Coro-adspersi, laciniis, staminibus, stylisque brevioribus long. seminibus minoribus. C. Sidarum Liebm.! in Hb.

On the ~~Lancast~~ Pinet of Oaxaca, on different species of Sida, Liebmann! in Hb. Hooker. — Inflorescence the same as in the species, flowers ~~some~~ smaller, 1/4 inch. But leaves shorter, stamens shorter, anthers oblong; capsule ~~ovoid~~ ~~regularly~~ ovate-globose; seeds 0.4 l. long.

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Cevanthus leptanthus n. sp.
caule rap. elato, ± pubescente, capillari, tereti, subflexuoso
foliis ~~alternis~~ 4-verni, graciliter, calycis ~~tubo~~
(tubo ovato-conico)
campanulato hispidulo, lobis triangulato-acutis
tubo corollae cylindraceo ~~multo~~ duplo brevioribus
lanceolatis, lanceolato-acutis, ento-petalis,
tubo multo brevioribus; filamentis cum
antheris ovatis brevissimis, loculis subequalibus,
squama ovata, dentato fimbriata ~~multo~~ tubo multo
brevioribus; stylis capillaribus longissimis, ~~subexsertis~~
(globoso-ovata)
demum exsertis; capsula ~~tubo~~ corollae basi hispidula
(subglobosa)
indurata, calyptrata; seminibus
triangulato-ovatis. —

1849 no ~~Prairie of the~~ Western Texas, Ch. Wright!
522. Prairies of the Leona, the Sabine, 1852,
No. 1639 mixed with *C. umbellata* — in both western
or *Euphorbia albomarginata*. — This is the only
Cevanthus ~~which this far I have~~ seen by me with, This fine & orchilly 4-parted
flowers! — It has also more globose seeds than
most other species, Flowers 2 — 2¼ l. long;
pedicels longer, calyx ~~in all the~~ about ⅓ l. long;
with the base of tube — short, campanulate globose, tube of corolla all thin, grooved
very slender, less exserted, ~~seeds about ⅓ long~~; calyx
corolla much longer than the capsule & ~~the~~
contracted above it; capsule ~~ovoid~~ ovoid
opening at base with a wide aperture;
seeds ~~more globose~~ 4, or less; about ⅛ l. long. — There
may be petaloid ones & there may be smooth
forms, but I have not seen them,

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38

Cuscuta hyalina Roth. Nov. Spec. p. 100

non Wight nec Boissier

C. Arabica Wight Ic. t. 1371 non Vahl

C. oxypetala Boiss! Diag. or. II. 3. p. 130.

C. acutissima Auch. exsicc. 1836 ÷ A. Schimp. 1842.

This fine & delicate ~~eastern~~ species of the tropical parts of the Eastern & extratropical Africa is certainly Roth's plant, & the specimens with Heyne's & Roth's own labels in the Herb. of Botan. Gard. of St Petersburg prove, though Roth speaks of scales short certainly never are present in all the specimens of his own as in all the ~~species~~ Heyne of this plant examined by me & all the different species I have seen are remarkably uniform in appearance & Boissier already mentions that the corolla-lobes (irregularly bursts at base). It therefore should be doubtful whether it really ought to be classed with Cuscuta in and if so, whether it does not readily falls off, when perfectly ripe, in the specimens seen it rather adheres to the base and the calyx and corolla-lobes are usually bifid & deeply divided (with the triangular portions of the calyx) very persistent at the end of Cuscuta in and varies thus with the following or

With C. Californica our species is very closely allied and indeed is difficult to distinguish from it; the texture of all the parts is thinner, semitransparent and shining when dry; there is no trace of scales, the styles are still more capitate; the capsule finely dehiscent regularly (all four) developed and triangular, flattened with the short almost oblong lobes perpendicular or transverse to the seeds of the same capsule; both from seed in Herb. Heyne, Stocks 478, Thompson & Hooker fil

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29

~~H. obl. H.~~

~~Cascada obtusiflora, Hook. Compl. Bunth.~~

~~n. gen. sp. III. 128.~~ ~~DC. Prod. IX.~~

Humboldt's plant ~~from the Peruvian Andes~~ ~~not recognized by any botanist~~ ~~seems to me~~ represents as it the type of a series of forms ~~which~~ spread over a great part of the globe. The most ~~little~~ species of the Peruvian Andes was not ~~recognized by any~~ nor sought in the ~~so~~ species ~~found~~ in widely distant ~~other~~ parts of the globe, ~~and apparently~~ which therefore received distinct specific appellations, and ~~distinct~~ another one, different ~~entry~~ countries. They are all characterized ~~by~~ both ~~in~~ size and ~~by~~ loosely ~~by the~~ globose ~~cymes~~, efloresence the small oval obtuse lobes of the corolla with the cattle-like tube ~~depressed~~ large ~~ovary~~ ~~capsule~~ non or less ~~subulate~~ ovary ~~capsule~~ ~~with~~ short ~~petiole~~ which soon after flowering ~~swells~~ ~~and~~ doubly and ~~bears~~ the corolla at ~~base~~ ~~bears~~ grown with ~~a~~ large dyed almost naked ~~with a very large~~ ~~pericarp~~ capsule; ~~seeds~~ mostly all developed ~~o. 6 o. 7~~ ~~oval, oblong~~ or o. 8 l. long, oval oblong with a long and narrow peripheral or transverse hilum, ~~many~~ almost across the whole umbilicus. ~~The different~~ the upper ~~part~~ of the whole flower is ~~quite~~ ~~different forms which I united~~ with ~~this~~ ~~Humboldt~~ species.

The only distinction which I can discover in the different forms ~~must~~ be here united lies in the shape and size of the scales.

Synopsis of the forms of C. obtusifolia

p. 465

α, Scales ovate or spatulate,

× smaller than the tube of the corolla

Daly Var. vera from South Amer.

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XX Scales as large or larger than the tube
all parts of the flower with
glands ~~or wax~~ Var. glandulosa of
the western and ~~the~~ southern parts of
North America.

XXX. Lobes and calyx broadly ovate, al
most orbicular scales very large
Var. Catalinae of Santa Cruz Island.

6. Scales bifid and often very small
X. 5 petaled ~~usually very glandular~~
flowers 2 scales small,
the latter sometimes obliterated
Var australis from New Holland, China
and ~~southern Europe~~ of only × in Cal.

XXX flowers large scales lobes narrow
& longer than Cesalpiaeus from Kashmir and Italy
XXXX Lobes of Calyx ~~ovate~~ acuminate) (with up
~~ovate~~ acuminate) (with up
for Africa. Var. Condylana.

XX. flowers ~~of~~ (4 petaled; (scarcely
Var. brevijlora (wanting) (scarcely
Southern Europe

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Cuscuta chlorocarpa, Engelm.! in Gray Man. p. 350. ed. 2. p. 337.— C. Polygonorum, Engelm.! in Silliman. Journ. 43. p. 342 DC. Prod. IX 461, not Pesat.

† Closely allied to the last, from which it differs especially by the bright orange colour of the stems, the globular inflorescence with the smaller flowers, the comparatively large and deeply divided capsule, and the short and thick style. The lobes of the calyx and corolla are acutish. The principal difference from the last species is found in the acute lobes of calyx and corolla, the latter usually spotted scales small, bilobed, or often wanting, of small lateral teeth; in a specimen from Delaware sometimes entirely wanting; ovary large, deeply filling the shallow tube of the corolla; capsule comparatively large, membranaceous, of a yellowish green colour, whence the name which is subject to for any form one take from the plant on which it usually grows; seeds 0.8 line long, oval compressed, rarely angled; with brown testa rather larger than in the last species. It has respects corresponding with the var. brevistylis of the last.

† Not common in the United States, mostly along ponds and wet places on different species of Polygonum — & other plants of those localities. Cephalanthus, Lycopus, some Asters, Missouri! Dracut! (not rare) Lexington, Litchfield! Englewood! Illinois! Englewood! Wisconsin! Lake county west of Waukegan! Englewood! with the last, rarely.

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Received these four only — Delaware, Tatnall!

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49. C. arvensis.

This ~~variable species~~ extends ~~from~~ far north.
~~Anthos Chesnut~~ ~~by~~ flowers (smaller) and hairs
more ~~compact~~ than in the two last species;
lobes of calyx very obtuse (or
~~mostly long with shallow tube~~
acute or mostly acuminate, reflexed with the
points reflexed; × scales very large deeply
cleft or fringed, ~~of~~ longer than the tube.
× short plants, subulate, rather broadly oval or rounded
styles rather slender as long ~~or longer than~~ as ovary
or longer; ~~capsule~~ ~~compound~~ ~~deep~~ seeds
0.5 – 0.7 lin long, oval or rounded, with a rather
short linear (hilum) ~~scar~~; The ~~difference in the shape~~
~~and texture of the calyx~~
different varieties may be characterized according
to shape size & texture of the calyx.

Var α. pentagona; C. pentagona Engelm. ! in Ill. Journ.
43 p. 340 ~~t. 6, f. 22–24~~ DC. Prod. IX. 461; C. arvensis, Beyr. ! in Hb.;
C. globularis, Nuttall ! in Hb. – Calyx thin, rarely shining,
lobes as long or longer than the ~~tube~~ shallow tube
of the corolla, large, obtuse, ~~with~~ thin (rounded)
forming 5 projecting angles; – ~~Old~~ fields or dry
barren soil ~~from~~ Vt or many different Composite
on other plants, roadsides, also on shrubs; from
Virginia, Engel ! Gallivant & Gray ! to
the Carolinas, Schweinitz ! Boze ! Beyrich !
Curtis ! Ravenel ! to Florida, Nuttall !

~~Hab as a b~~ A ~~variety of the~~ with shorter ~~and~~ ~~Jointy~~
~~distinct~~ Var. ~~microcarpa~~ microcarpa is the western form
with calyx (lobes shorter than the tube), less distinctly
angled, at the commissure (on solid ~~and~~ ~~dry~~ soil ~~or~~ Central
Dry hilly soil, in open woods etc. Illinois, Geyer!
Wilson! Lucas! Riehl! Nebraska, Hayden!

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Park county, Colorado, Brandegee.

Var. β. verrucosa, C. verrucosa, Engler. l. c. p. 241 t. 6. f 25; DC. Prod 11:461; — Calyx shorter than the ~~deeply~~ more campanulate tube, ~~glandular~~ glandular-verrucose, — in dry prairies, often on Petalostemon, but also among other plants prairie; Texas, Drummond! 111. 247, Lindheimer! 127. Northern Mexico, Berlandier! 2457, to San Luis Potosi, the same! without nro. and Parry Gregg! — Lindheimer's no 247 473 is an intermediate between this and var. pentagona, and a few specimens of the following var. are undistinct.

Var γ. pubescens; pedicels and all parts of the flower, or only the ovary and the capsule papillose-pubescent, — Labetan Texas, Wright! Lindheimer! Wright! 1635 (574). — Wright's 519 and 523 (coll. 1849) form a transition between this and the last variety, have the calyx of these and the capsule of the pubescent.

Var δ. calycina; calyx campanulate, large lobes, inflorescence more compact, flowers shorter, capsule large, ~~ovate~~ calyx not angled, (sometimes rare) lobes usually longer than the tube; ~~triangular lobes of calyx as long as tube (not longer than the tube and corolla broader, acute)~~ lobes of calyx as long as the tube, the other forms shorter, ~~on wet prairies~~ Lindheimer! 126 (a form with smaller flowers, nearer R. pentagona); the same! 664 (on R. anthera, Wright!), Matamoras, Prod. Richard! 114, in Hb. Mus. Flor. & Hb. Fauché (now in Boissier); Saskatchawan, Drummond!; Oregon, Geyer! 674 spec.? Brazil, different from this by —— Schenck! — Hb. Ledebour; Jardin! 6068 (in part; C. decora has also broad lobes, but many flowers, stamens shorter, and in fruit subulate styles and gynophore with shorter pubescence).

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Cissus trichostyla n sp.

caule filiformi; floribus breviter pedicellatis Vix corymbulas
ramosas subglobosas congestis; calycis cupulati
(fere ad basin divisi lobis ovatis obtusis) basi inclusis
exteriorib exterioribus ~~s. ramoso~~ cristatis, corollae
(completa sub
tubum) aequalibus s. ~~in~~ longioribus reflexis;
staminibus palatis ovatis obtusis, tubo aequilongis
dein patulis reflexisve; antheris ovatis ~~subtus~~ filetis
(brevi subulatis) aequantibus, ~~s~~ ovario late ovato,
~~tubo fere aequalibus~~ ~~stylus~~ stylis ~~fusiformibus~~ ~~s.~~ capitatis ovario dimidio multo
longioribus, e tubo vix exsertis.

Panama, Tweedie! (in Hk. Hooker), Santarem, Spruce! 1854; Gatt ~~s~~ Unfortunately none of
the specimens I have is in fruit and it must remain
doubtful whether I placed this species correctly here,
where however it otherwise seems to
which I am justified in assigning to this species
the place which Analogy seems to indicate for it.
The large imbricate calyx, the slender styles and
especially the branchy inflorescence distinguish it
from C. obtusiflora; the inflorescence too, and the
styles from C. racemosa and from C. Gardneri,
— flowers 1 3/4 — 2 lines long; lobes of calyx in the
Panama specimen ~~erect~~ somewhat connate, in
the other spreading, smooth, thin and shining;
scales in the former longer than the tube, in the other
broader and shorter.

x white, with a strong odor of Hawthorn Spruce!

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0 1 2 3 4 5 6 7 8 9 10
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C. gymnocarpa n. sp.

caulibus filiformibus; floribus breviter pedicellatis umbellato-glomeratis; calycis lobis ovatis s. obovatis obtusissimis tubum corollae aequantibus; lacinia triangulatis acutis erectis seu deinde subrecurvis, tubo aequilongis; antheris ovato-obtusis filamentum brevem subulatum aequantibus, corollae multo; squamis tenuissimis late ovatis, filum fimbriatis faucem attingentibus; stylis tenuissime exsertis depresse globosa depressum e corollae medio longe exsertum dimidiatis; ramulis obtusis; semine obliqueovato, tenuissime sub lente reticulato. — C. Sandwicensis, var. Mimosae Hook fil in Lin Transact. XX. p. 205.

James Island of the Gallopagos group, in immense abundance on Mimosa bushes, Ch Darwin! in H. Hooker. — Flowers small abt 1/4 l. long, of very thin texture; seeds c. 6. l. 6. plump, very smooth, dark brown, short lobes of the limb very obtuse, much more closely allied with C. anceps is the with C. Sandwicensis; the short broad and very acute lobes of the corolla and the very slender and at last overly divaricate styles. Distinguish it from both, and moreover by the presence of scales from the latter.

X with small obtuse style aperture.

H = the only specimen extant light yellowish Brown

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C. Sandwichiana Chois. Casc. 184
γ.t. 5 f. 4 DC Prod IX 458. — Inflorescence a compound
and branching cyme; flowers pedicelled,
1–1½ lin. long, ♀. Calyx of calyx oval, acutish,
lobes of corolla acute, reflexed, or sometimes
obtusish, not reflexed, but usually at last
adpressed to the top of the capsule which for
the greater part is entirely enveloped by the
corolla; capsule 1¾–2 l. diut., with small
almost ovate subacute apex; styles short
the ♀ the lobes spreading somewhat divaricate
seeds usually large 0.8–1.0 lin. long, ± ovoid
triquetrous ovate, hilum oblong (base) short,
perpendicular on a comparatively small
regularly circular ambitus —
(± in all the specimens examd dark brown)
Sandwich Islands, apparently all
the Islands, and the only species occurring
there — mostly on herbaceous plants and shrubs;
♀ of their membranous texture; only in
Menzies' specimen in Hb. Banks & fig
the whole flower & all the parts of the flower
but the corolla with glands
Menzies! Eschscholtz! Gaudichaud, Matthews
Stewart, Maximowicz 57 Remy 424. —

flowers ♀, flores pellide ochracei, antherae
(Max

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Cuscuta acuta n. sp. Flore gracilis

caulibus subrapillaceis, flavidis perennibus, ramosis

ovata acuta, subalbis; cymis compositis laxiflorus

subglobosis congestis umbellulas mentientibus; calyce

5 alyci campanulati membranacei, lobis triangulis

late acutis v. cuspidatis tubum corollae campanulati

superantibus; carnosis tubo longioribus, lanceolatis

acutis v. subpatentibus; filamentis subulatis, antheris

oblongo-linearibus; ovario depresso-globoso, stylis

10 brevibus; squamis ovato-spatulatis, longe adnatis

stylis capillaribus ovum dorsali v. globosum

aequantibus; capsula tenuissima corollae

subaequilonga circumscissa pyxidata; seminibus

4 stylis e basi lata subulatis tuberculis coronata,

lenticularibus compresso-rotundatis.

15 Chatham Island of the Galapagos group, mostly

on Leguminosae; on low shrubs & Cordia &

also on trees, Parkson & Macraea, hanging down

many festoons, Andersson! — Closely allied

to the two other Cuscutae just described, distinguished from both

20 by the very acute lobes of calyx and

corolla and from the last the subulate styles,

from C. sandwichiana by the scales of the C.

gymnicarpa by the ovoid capsule and the short

styles. * Flowers 1–1¼ line long; lobes

25 of the calyx 1/4 the length; scales adnate

for about ¼ their length; ovules with a dorsal

appendage only above; style capillary

from a transverse slit; capsule white thin

in drying; seeds only 0.5 line long dark brown

30 in the specimen before me, and strongly striolate,

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perhaps not perfectly ripe; hilum short, oblong-linear, superficial or oblique.—

From C. acuti-lobum of the mountains of the neighboring central [illegible] it is distinguished by the barren capsules etc. & from C. umbellatum by the sam chaetae, by the flowers etc.—

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XXX

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